# TP-00733

NOAA FORM 76-35

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

# **DESCRIPTIVE REPORT**

Type of SurveyShoreline
Job No. CM-7311 Map No. TP-00733
Classification No. Final Edition No1
Field Edited Map
LOCALITY
State Washington
General Locality Tacoma Harbor
Locality Blair Waterway
20carry
1973 TO 1974
REGISTRY IN ARCHIVES
DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901

Ris 1845-3-9-30-81RL Ris 18445-5=9-30-81-RL Ros 18448 9-30-81-RL

			0050
NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY	<sub>тр-</sub> 00733
	G ORIGINAL	MAPEDITE	on no. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS	i ř.
	REVISED	JOB 1	CM-7311
PHOTOGRAMMETRIC OFFICE	LAST BRECER	INC HAD EDIS	
Coastal Mapping Division	LAST PRECEED		<del></del>
Atlantic Marine Center, Norfolk, VA	TYPE OF SURVEY		PH
OFFICER-IN-CHARGE	RESURVEY	MAP CLASS	
	REVISED	19 TO 19	
Jeffrey G. Carlen, Cdr., NOAA	- 1		
I. INSTRUCTIONS DATED			
1. OFFICE	2.	FIELD	······
Aerotriangulation Aug 30, 1973 Compilation Jan 22, 1974	May 17, 197	3	
11 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -			
II. DATUMS	OTHER (Specify)		
1. HORIZONTAL: X 1927 NORTH AMERICAN	(oppolity)		
MEAN HIGH-WATER  MEAN LOW-WATER  MEAN LOWER LOW-WATER  MEAN SEA LEVEL	OTHER (Specify)		
3. MAP PROJECTION		GR(D(S)	
Polyconic	Washington	ZONE	South
5. SCALE 1:5,000	STATE	ZONE	
III. HISTORY OF OFFICE OPERATIONS		······································	· ·
OPERATIONS	NAME		DATE
1. AEROTRIANGULATION BY METHOD: Analytic Landmarks and aids by	I. O. Raborn		1/74
	D. Dobantaan		1/74
2. CONTROL AND BRIDGE POINTS PLOTTED BY CHECKED BY	R. Robertson		<del> ±/-/4</del>
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	Richard White		2/74
COMPILATION CHECKED BY	Lowell Netere		2/74
INSTRUMENT: Wild B-8 CONTOURS BY	NA		
SCALE: 1:7,500 CHECKED BY	NA NA		
4. MANUSCRIPT DELINEATION PLANIMETRY BY	Charles Parke		2/74
CHECKED BY	Richard White		2/74
METHOD: Smooth Draft	NA NA		ļ · - · ·
CHECKED BY HYDRO SUPPORT DATA BY	NA Charles Parke		2/74
SCALE: 1:5,000 HYDRO SUPPORT BATA BY	Richard White		3/74
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	Richard White		3/74
ву	J. Desch		5/75
6. APPLICATION OF FIELD EDIT DATA  CHECKED BY	A. L. Shands		5/75
7. COMPILATION SECTION REVIEW BY	A. C. Rauck,	Jr.	5/77
8. FINAL REVIEW BY	A. L. Shends		Jan. 1978
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	A. L. Shands		Mar. 1978
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	J. B. Phillip	5	March 1978
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	P.T. Catox	<del></del>	May 1978
NOAA FORM 76-36A SUPERSEDES FORM C&GS 181 SERIES			0303 /E03 DEC #4



(3-72)	CO	TP-007	'33	OCEANIC AND		MENT OF COMMERCE RIC ADMINISTRATION NAL OCEAN SURVEY
1. COMPILATION PHOTOGRAPHY	COI	MPILATIO	N SOURCES		t.ii	· · · · · · · · · · · · · · · · · · ·
CAMERA(S) Wild RC-8 "E"		TYPE	S OF PHOTOGRAPH	IY	TIME RE	FERENCE
TIDE STAGE REFERENCE		 (c) cou		ZONE		
REFERENCE STATION RECORDS		i i	ICHROMATIC	Pe	cific	[X]STANDARD
TIDE CONTROLLED PHOTOGRAP	HY	(i) INF	RARED	1	Oth	DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCAL	Ε	STAGE	OF TIDE
73E(C) 9069 thru 9071 73E(C) 9076 73E(C) 9114 and 9115 73E(C) 9090 thru 9092	6/22/73 6/22/73 6/22/73 6/22/73	09:3 09:4 .10:1 09:5	3 1:15,0 8 1:15,0	000 7	7.8 ft. a 7.4 ft. a	above MLLW above MLLW above MLLW above MLLW
REMARKS						
·						·
3. SOURCE OF MEAN LOW-WATER O	R MEAN LOWER L	OW-WATER L	.INE:			
4. CONTEMPORARY HYDROGRAPHI SURVEY NUMBER DATE(S)	C SURVEYS (List of		rveys that are source	es for photogra		ey information.)
5. FINAL JUNCTIONS				<u> </u>		
No Survey	TP-00736		souтн ТР-007	35	west T	P <b>-</b> 00732
REMARKS						•

. X FIELD INSPECTION OPER	ATION FIELD	DEDIT OPERATION		•••
	RATION		NAME	DATE
1. CHIEF OF FIELD PARTY			Melby	6/73
	RECOVERED BY		Melby	6/73
2. HORIZONTAL CONTROL	ESTABLISHED BY	None		/ /80
	PRE-MARKED OR IDENTIFIED BY		Riggers	6/73
. VERTICAL CONTROL	RECOVERED BY	NA NA	· · · · · · · · · · · · · · · · · · ·	
3. VERTICAL CONTROL	ESTABLISHED BY	NA NA	<del> </del>	<del> </del>
	PRE-MARKED OR IDENTIFIED BY	NA	_ <del>_</del>	
	COVERED (Triangulation Stations) BY			
4. LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY	None		·
	. TYPE OF INVESTIGATION	None		<del>                                     </del>
5. GEOGRAPHIC NAMES	COMPLETE			
NVESTIGATION	SPECIFIC NAMES ONLY			
	T NO INVESTIGATION			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	·	<del> </del>
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA NA		<del>-</del> -
II. SOURCE DATA		I IA	<u></u> E.	<u> </u>
. HORIZONTAL CONTROL IDEN	ITIFIED	2. VERTICAL CO	NTROL IDENTIFIED	···
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DES	GNATION
73E(C)9070 NASH R.	M., 1935			
3. PHOTO NUMBERS (Clarification	on of details)	<u> </u>	<u></u>	
None				
4. LANDMARKS AND AIDS TO NA	VIGATION IDENTIFIED			
None		<del>,</del>		
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT >	NAME
			•	
		]		•
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		,		
GEOGRAPHIC NAMES: [	REPORT X NONE	6. BOUNDARY AN	ID LIMITS: REPOR	т 🗓 пои
7. SUPPLEMENTAL MAPS AND F				
None				
ATHER FIELD DECARDS OF	tch books, etc. DO NOT list data submit	ted to the Geodesy D	rivision)	· · · · · · · · · · · · · · · · · · ·
B. OTHER FIELD RECORDS (SKe	COLDOORS, etc. DO NOT THE GAIA SUMME			

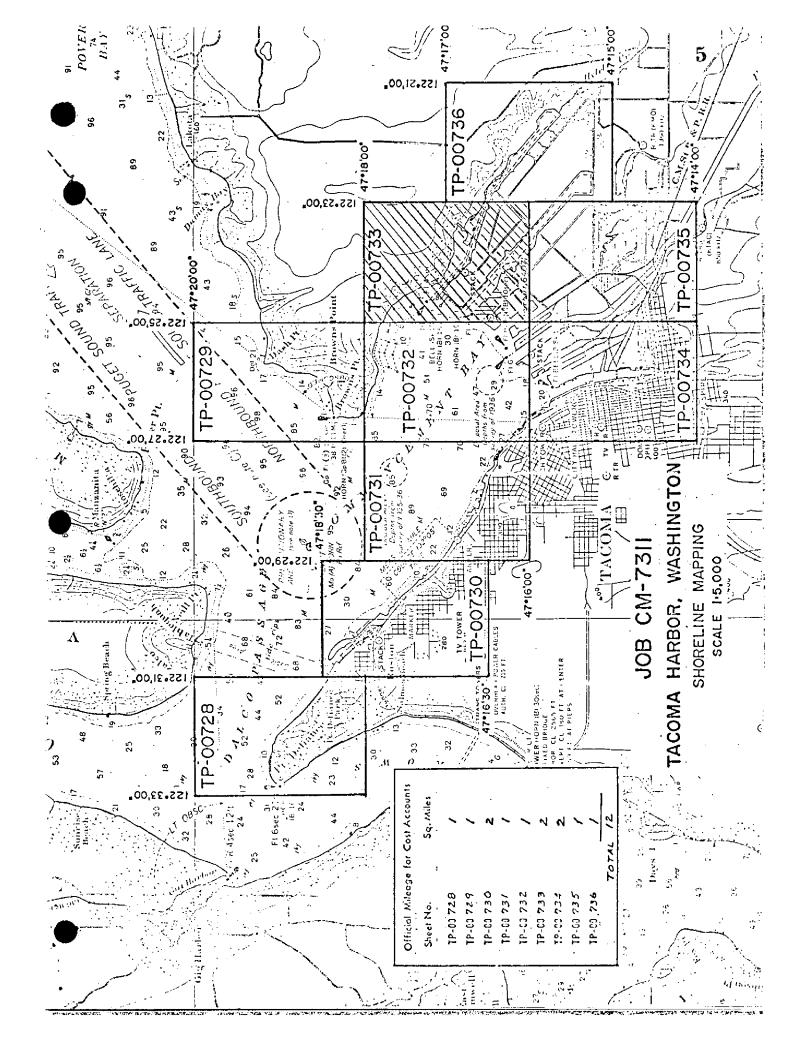
(3–72)	TP-007 HISTORY OF FIELD	33	NIC AND ATMOSPHER	MENT OF COMMERCE RIC ADMINISTRATION DNAL OCEAN SURVEY
I FIELD INSPECTION	OPERATION X FIEL	D EDIT OPERATION		
	OPERATION		NAME	DATE
1. CHIEF OF FIELD PART	Y	M. Flo	emin <i>g</i>	3/74 - 4/74
	RECOVERED BY	None		
2. HORIZONTAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	None		
	` RECOVERED BY	NA		
3. VERTICAL CONTROL	ESTABLISHED BY	<u>NA</u>		
	PRE-MARKED OR IDENTIFIED BY	NA NA		
	RECOVERED (Triangulation Stations) BY	None		-
4. LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY	None		
	1DENTIFIED BY TYPE OF INVESTIGATION	None		
E acachinus usum	COMPLETE			1
5. GEOGRAPHIC NAMES. INVESTIGATION	SPECIFIC NAMES ONLY			
	Y NO INVESTIGATION			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	· ····································	
7. BOUNDARIES AND LIMI		NA NA		
II. SOURCE DATA	SOUTH TO SEATT PIED BY	1111		
1. HORIZONTAL CONTROL	DENTIFIED	2. VERTICAL CON	TROL IDENTIFIED	
None		NA		
PHOTO NUMBER	ST A TION NAME	PHOTO NUMBER	\$TATION D	ESIGNATION
None	fication of details)  TO NAVIGATION IDENTIFIED			· · · · · · · · · · · · · · · · · · ·
None	TO MANUALISM ISEMITIFES			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJEC	T NAME
		TO S NOMBER		
5. GEOGRAPHIC NAMES:	REPORT X NONE	6. BOUNDARY AN	D LIMITS: REP	ORT 🛣 NONE
7. SUPPLEMENTAL MAPS				UMA TOTAL
None				
8. OTHER FIELD RECORD	S (Sketch books, etc. DO NOT list data submi	tted to the Geodesy D	ivision)	
l Field Edit	Ozalid and Field Edit Repor	t		

		HIST	TP-00733	} OPERATIONS	NAT	IONAL OCEAN SURVEY
I FIELD INSPI	ECTION OPER	NOITAS	T FIEL	D EDIT OPERATION	i	
	OPI	ERATION			NAME	DATE
1. CHIEF OF FIEL	D PARTY				eming	12/74 - 1/7
			RECOVERED BY	L. Riggers		12/74
2. HORIZONTAL C	CONTROL		ESTABLISHED BY	None	····	
		PRE-MARKED	OR IDENTIFIED BY	None		
  -  -			RECOVERED BY	· NA		<del></del>
3. VERTICAL CON	ITROL		ESTABLISHED BY	NA NA	·	
			OR IDENTIFIED BY	NA Di man	D 10.1	30/81
4 1 ANDMADES AT			julation Stations) BY	L. Riggers	- D. Eilers - D. Eilers	12/74 12/74
4. LANDMARKS AN AIDS TO NAVIG		LOCATED	(Field Methods) BY	L. Riggers		12/74
		TYPE OF IN	IDENTIFIED BY	n. urkkers	- D. ETTELS	12/14
5 CEOCEARUIC N	· s same	COMPLE				
5. GEOGRAPHIC N INVESTIGATION		_	BY IC NAMES ONLY			
		_	ESTIGATION			
4 DUATA INCREC	TIAN			D. Ei	lana	12/74
7. BOUNDARIES A			ON OF DETAILS BY	NA NA	T61.R	1 LK/ 14
II. SOURCE DATA		SURVEIEU	OR IDENTIFIED BY	11111		
1. HORIZONTAL C		NTIFIED		2. VERTICAL CO	NTROL IDENTIFIED	
None	•			NA		
PHOTO NUMBER		ST A TION: N AN		PHOTO NUMBER	STATION	DESIGNATION
73E(C) 90	91 and 91	113 and 9114				
None	*			·	·-··	
PHOTO NUMBER	<b> </b>	OBJECT NAM	ИЕ,	PHOTO NUMBER	OBJE	CT NAME
5. GEOGRAPHIC N	NAMES:	REPORT	NONE	6. BOUNDARY AN	ND LIMITS: E RE	PORT X NONE
7. SUPPLEMENTA	L MAPS AND	<del></del> -				
l set Co	nstructic	on Plans for	New Pier			
l Origina	al Field a Field E	etch books, etc. <b>DO</b> Edit Ozalid Edit Report	NOT list data submit	ted to the Geodesy D	Pivision)	

NOAA FORM 76-36D (3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
TP-00733

			RECO	RD OF SURVE	Y USE				
I. MANUSC	RIPT COPIES								
	Со	MPILA	TION STAGE	<u>s</u>			DATEMA	NUSCRI	PT FORWARDED
	ATA COMPILED	1	DATE	RE	MARKS		MARINE C	HARTS	HYDRO SUPPORT
	ation complete, g field edit.		2/74	Class III Supers		ipt 	3/1	74	3/74
	edit applied.		5/75	Class I Ma	anuscript	5	5/′	77	
Final	Review	Ja	n. 1978	Fina	1 .		Feb.	1978	
	ARKS AND AIDS TO NAVIGA								
1. REPO	RTS TO MARINE CHART DI	VISIO	N, NAUTICAL	DATA BRANCH					
NUMBER	CHART LETTER NUMBER ASSIGNED	FC	DATE PRWARDED			REM	ARKS		
1		6,	/16/77	Aids.					
11	,		6/16/77	Landmarks	•				
1		6,	/16/77	Landmarks	to be de	elete	d		
=	REPORT TO MARINE CHART						• ——	e 16,	
	REPORT TO AERONAUTICA AL RECORDS CENTER DAT		RT DIVISION	, AERONAUTICAL	DATA SECT	ION. D	ATE FORW	ARDED:	
1. 💌 2. 👿 3. 🕱	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENTI SOURCE DATA (except for G ACCOUNT FOR EXCEPTION DATA TO FEDERAL RECOR	∭ FICA1 eograp IS:	FION CARDS; phic Names Re	Y FORM NOS	S SUBMIT	TED B		RTIES.	
	Y EDITIONS (This section s				adition is an		· · · · · · · · · · · · · · · · · · ·		<del>-</del>
SURTE	SURVEY NUMBER	,,e.,, D	JOB NUMBE		, serion is fe	~ -	TYPE OF S	URVEY	
SECOND	TP	(2)	PH			RE	VISED	RES	URVEY
EDITION	DATE OF PHOTOGRAPH	47	DATE OF FI	ELD EDIT	<b>□</b> 11.	<b>□</b> 111.	MAP CL □ IV.		FINAL
	SURVEY NUMBER		JOB NUMBE	R	·		TYPE OF S		
THIRD	TP	(3)	РН	<u> </u>		RE	VISED	RES	URVEY
EDITION	DATE OF PHOTOGRAPH	17	DATE OF FI	ELO EDIT	<b>□</b> n.	□£II.	MAP CL ∏IV.	ASS □v.	FINAL
	SURVEY NUMBER		JOB NUMBE	R		_	TYPE OF S		
FOURTH	TP -		PH -	_		∐ RE	VISED	RES	ĴŖVĖY
EDITION	DATE OF PHOTOGRAPH	1 Y	DATE OF FI	ELD EDIT	П.,	П	MAP CL		□



#### SUMMARY TO ACCOMPANY

#### DESCRIPTIVE REPORTS TP-00728 thru TP-00736

The maps covered in this summary comprise all of Project CM-7311. They are all standard shoreline maps covering Commencement Bay and including the Hylebos, Blair, Sitcum, Milwaukee, Puyallup, St. Paul, Middle and City Waterways. The purpose of the project is to provide up-to-date shoreline and alongshore delineation in support of contemporary hydrographic surveys and for nautical chart construction. All maps are 1: 5,000 scale.

Photography of the area was flown at 1:15,000 scale in June, 1973. Both onshore and offshore flights were flown. Ratios of the offshore flights were processed by the compilation office for photo-hydro support.

Field work prior to compilation was limited to the recovery and identification of horizontal control used in bridging. There was no clearification of details.

Bridging was done at the Washington Science Center in January, 1974, using the onshore flights. Analytic triangulation methods were used. Points common to the offshore flights were established to determine ratio scales.

The maps were compiled at the Atlantic Marine Center during February and March, 1974, by Wild B-8 instrument method.

Many buildings currently charted are not shown on the maps. In most cases, buildings are shown on the chart as they appear on the photographs. However, in a few instances buildings shown on the chart are not visible on the photographs. Where this is so, that fact is stated in the review report of the affected map.

Field edit was partially done in April, 1974 and completed in December, 1974. It was applied to the maps at the Atlantic Marine Center in May, 1975.

Final review was performed at the Atlantic Marine Center in January, 1978. The original base maps and all pertinent data was forwarded to the Washington Science Center for final registration.

# FIELD INSPECTION

# TP-00733

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

PHOTOGRAMMETRIC PLOT REPORT
Tacoma Harbor
Washington
Job CM-7311
January 1974

# 21. Area Covered

The area covered by this report pertains to the shoreline of Commencement Bay, Tacoma, Washington. This area is covered by nine 1:5,000 scale sheets, TP-00728 thru TP-00736.

# 22. Method

Three strips of 1:15,000 scale color photography were bridged by analytic aerotriangulation methods. Strip No. 1 was measured on the David W. Mann Company mono comparator Model 422 and strips 2 and 3 were measured on the Wild stereo comparator. Sketch number 1 shows the flight lines of the photography and . the placement of the control used in the adjustment. The three strips were controlled by field identified control paneled in 1973. Old control, which was office identified, was floated for checks. Ties were made between all bridging strips. Common points were located between the bridging photography and the offshore flights to determine the ratio scale. One cronapaque and one matte each were ordered of the offshore flights. Sketch number 2 shows the flight lines of the offshore photography. Data for ruling projections were furnished to the Coradomat to be plotted on the Washington South Plane Coordinate System.

# 23. Adequacy of Control

The control was adequate.

## 24. Supplemental Data

USGS quadrangles were used to provide vertical control for the adjustment.

#### 25. Photography

The photography was adequate.

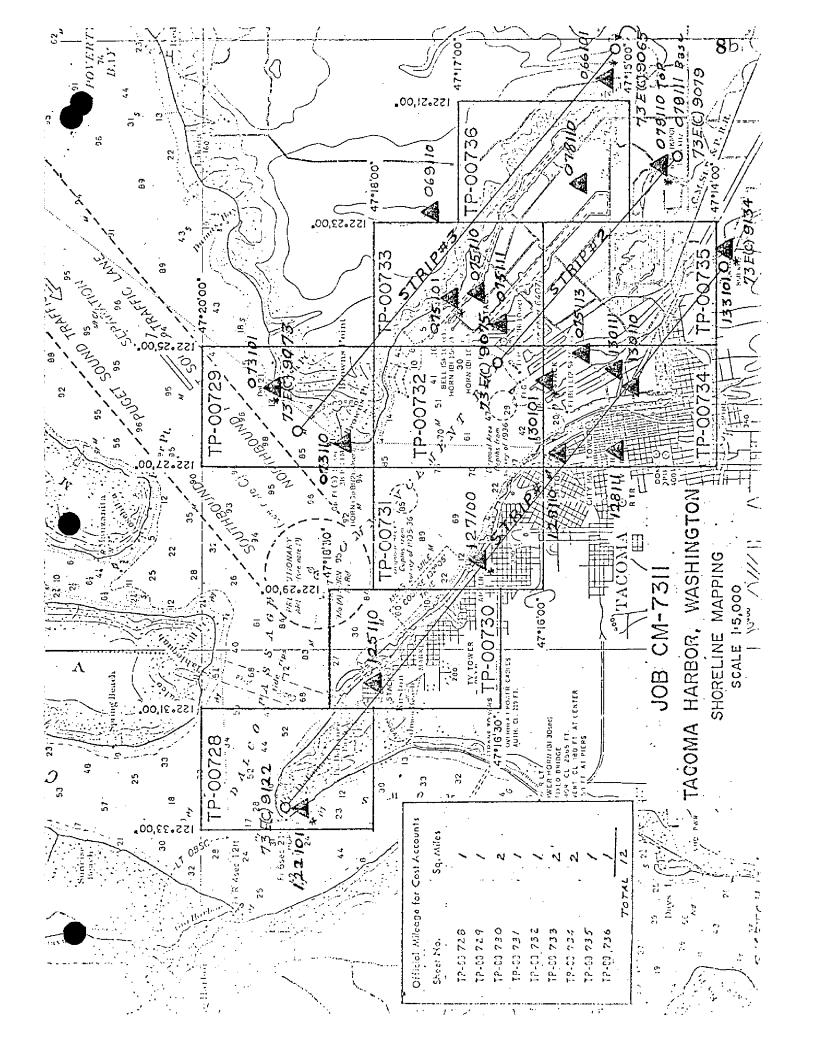
Respectfully submitted,

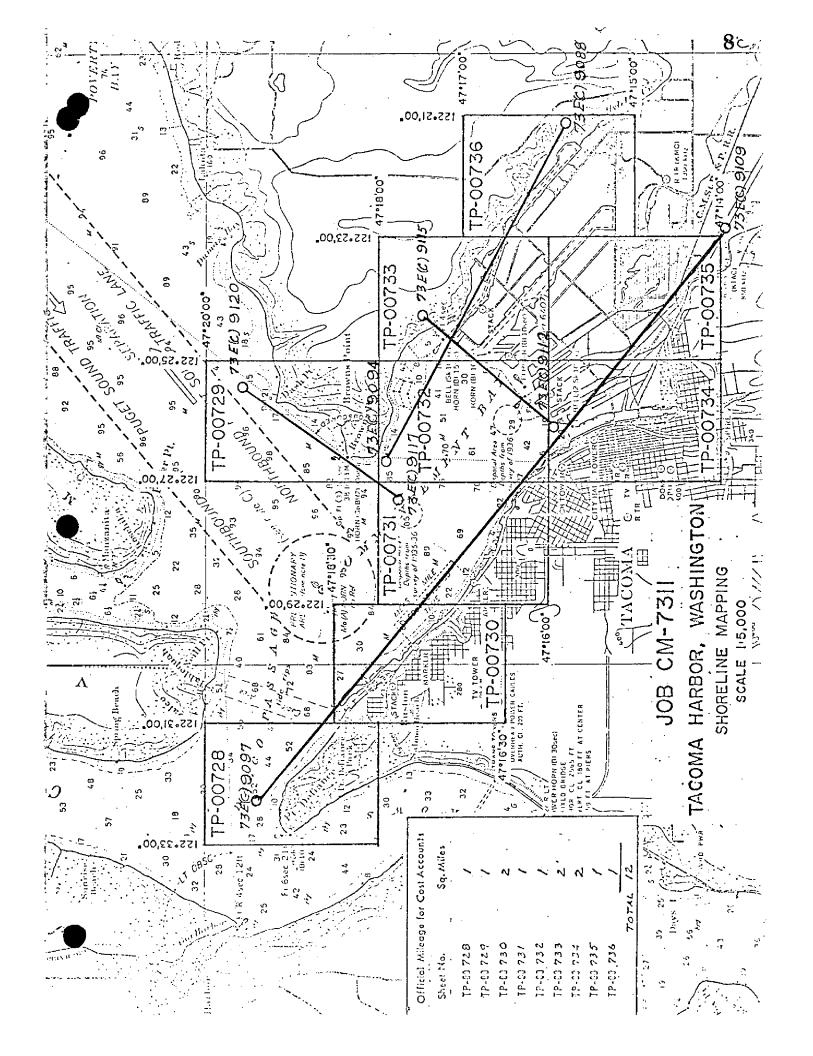
July O. Raham Iver O. Raborn

Approved and Forwarded:

John D. Perrow, Jr.

Chief, Aerotriangulation Section





NOAA FORM 76-41				U.S. DEPARTMENT OF COMMERCE	DEPARTMENT O	F COMMERCE
(6/-6)		DESCRIPTIV	CRIPTIVE REPORT CONTROL RECORD		TMOSPHERIC ADM	INISTRATION
MAP NO. TP-00733	L LOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	TY Coastal	Mapping
(C) 00- 11	0.17	7-1		Division, AMC	le Norfolks	Virginia
STATION NAME	SOURCE OF	AEROTRI- ANGULATION	COORDINATES IN FEET  STATE Washington	GEOGRAPHIC POSITION	REMARKS	, sks
	(Index)	NUMBER	zone South		FORWARD	BACK
NASH 1935	P.C. Vol 2		x= 716,947.26	Ф	97.7%	(105274)
			y= 1,527,674.93	γ	1674.93	(32507)
MAY. 1935	G.P. Vol 1		<b></b> 'X	649.44 91 44 679	1379.8	(473.1)
	P. 243		ij≈	λ 122 23 11.674	245.4	(1015.6)
TACOMA CHEMICAL PLANT,	G.P. Vol 1		χ=	\$\phi\$ 47 16 47.217	1458.2	(394.7)
GOLD DOME, 1935	P. 243		y=	λ 122 24 10.939	229.9	(1031.1)
TACOMA, RED STACK, 1933			χ=	φ 47 16 46.341	1431.1	(421.8)
	F. 1005		β=	λ 122 24 08.896	187.0	(1074.0)
PORT DOCKS, BLACK TANK,	G.P. Vol 1		-χ	<ul><li>47 16 32,660</li></ul>	1008.6	(852.1)
1927	P. 89		ή=	λ 122 24 40.386	848.8	(412.3)
PORT INDUSTRIAL WATERWAY	See Field Editoria		χ=	φ 47 16 42 <b>.</b> 177	1302.5	(550.4)
LIGHT, 1973	76-40		<i>ή=</i>	λ 122 24 52.953	1112.9	(148.5)
HYLEBOS WATERWAY LIGHT,	See Field Editor's	·	=χ	φ 47 17 14.522	448.5	(1707.7)
1973	76-40		y=	λ 122 24 41.679	875.8	(385.0)
			χ=	-0-		
			y=	γ		
	,		χ±	ф		
			Ĥ=	γ		
			=χ	ф	<u>I</u>	
			<i>f</i> {=	х.		•
COMPUTED BY A. C. Rauck, Jr.	H	2/01/74	COMPUTATION CHECKED BY	. R. Gustafson	DATE 2/01/74	7.4
LISTED BY		DATE	LISTING CHECKED BY		DATE	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE	

#### COMPILATION REPORT

## TP-00733

## 31. <u>DELINEATION</u>:

Delineation was by the Wild B-8 stereoplotter, using 1:15,000 scale color photography. Control and photography was adequate.

#### 32. CONTROL:

See the attached Photogrammetric Plot Report dated January 1974.

# 33. SUPPLEMENTAL DATA:

None.

#### 34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

# 35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details were delineated by the Bild B-8 stereoplotter and by office interpretation of the photographs.

The mean high water line was delineated from the photographs.

#### 36. OFFSHORE DETAILS:

None compiled.

#### 37. LANDMARKS AND AIDS:

Compilation office prepared work copies of Forms 76-40 were forwarded to the field editor for verification, location and/or deletion.

# 38. CONTROL FOR FUTURE SURVEYS:

None.

#### 39. JUNCTIONS:

See the attached Form 76-36B, Item #5 of the Descriptive Report concerning junctions.

# 40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

# 46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following USGS Quadrangle: TACOMA NORTH, WASHINGTON, dated 1961, scale 1:24,000.

# 47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following USC&GS Charts: No. 6407, 12th edition, January 27, 1973, scale 1:15,000; No. 6460, 12th edition, August 19, 1972, scale 1:80,000; and No. 185-SC, 9th edition, March 10, 1973, scale 1:80,000.

# ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

# ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Albut C. Rauch J. For Charles Parker Cartographic Aid February 28, 1974

Approved for forwarding:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

January 11, 1978

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-7311 (Tacoma Harbor, Washington)

TP-00733

Blair Waterway

Commencement Bay

Hylebos Waterway

Northeast Tacoma

Sitcum Waterway

Tacoma

Approved by:

Charles E. Harrington Staff Geographer - C51x2

NOAA FORM <b>75-74</b> (7-75)			ı	U.S. DEPARTMENT OF COMMERC NO.
	PHO		P = 00733	NATIONAL OCEAN SURVI
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
RRW	RI	RW.	RRW	RRW
CONTROL STATIONS	J	<del></del>	<u> </u>	,
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF ACCURACY	6. RECOVERAL OF LESS TH (Topographic	BLE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
RRW			. NA	NA
& BENCH MARKS	9. PLOTTING (	OF SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
RRW	[A	LS	RRW	RRW
ALONGSHORE AREAS (Nautica	I Chert Deta)	<del></del>		
12. SHORELINE	13. LOW-WATER	R LINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
RRW	RI	RW	RRW	RRW
16. AIDS TO NAVIGATION	17. LANDMARK	(\$	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
RRW	RF	W	RRW	RRW
PHYSICAL FEATURES	•			
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOUR
RRW		,	NA	NA
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26 OTHER PHYSICAL FEATURES
NA	NA	1	NA	RRW
CULTURAL FEATURES			•	
27. ROADS	28. BUILDINGS	I	29. RAILROADS	30. OTHER CULTURAL FEATURES
RRW	RF	RW ·	RRW	RRW
BOUNDARIES			132 munico i ano ancio	
	IA.		32. PUBLIC LAND LINES	NA
MISCELLANEOUS				
33. GEOGRAPHIC NAMES		34. JUNCTION	5	35. LEGIBILITY OF THE MANUSCRIPT
RRW			RRW	RRW
6. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
RRW	RE	<b>W</b>	ALS	RRW
10. REVIEWER Richard P	7. White	,	SUPERVISOR, REVIEW SECTION	1.7
Richard R. White		2/74		
1. REMARKS (See attached she		,		
TELD COMPLETION ADDITION	S AND CORRECT	TIONS TO THE M	ANUSCRIPT	
<ol> <li>Additions and corrections script is now complete ex</li> </ol>	s furnished by the cept as noted und	e field complet der item 43.	ion survey have been applied t	to the manuscript. The manu-
J. Desch	oarine De	*ch 5/05/75	SUPERVISOR	anok. n.
eviewer A. L. Sha	nds	5/75	Albert C. Rauck. J	r y r
3. REMARKS Q. L. Sh			, Albert O. Rauck, J	<u> </u>
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FIELD EDIT REPORT

COMMENCEMENT BAY

TACOMA, WASHINGTON

OPR-412

MARCH - APRIL 1974

# INTRODUCTION

Field edit reports are attached for the following maps: TP-00728, TP-00729, TP-00730, TP-00731, TP-00732, TP-00733, TP-00734, TP-00735, and TP-00736. Copies of the Field Edit Ozalids and extra ozalids were compared in the field with actual shore features. The field edit was done before signals were built in many areas, so positions of many items were estimated relative to nearby features. In many instances these positions fell on one or more natural ranges. Some sextant fixes were possible and wearecorded for future reference. Height data for all features were noted as referenced to MLLW or MHW or simply by time and date. Unless followed by a "Z" for GMT, all times are in Zone +7 (105° meridian).

All notes have been made in violet ink on the Field Edit Ozalids with the exception of TP-00733 for which another sheet was used and labeled "Smooth Ozalid." All deletions are noted or underlined with green ink.

During our work in the survey area, a great deal of new construction was observed. Shoreline construction sites were noted - as fully as possible - on the ozalids. It is suggested that any questions about new piers, etc. under contruction be directed to the Property Manager, Port of Tacoma (adress below).

Hugh Wild Property Manager Port of Tacoma P.O. Box 1837 Tacoma, WA 98401

Compilation of the maps agreed well with actual shore features; any discrepancies are noted on the ozalids. Field edit of these manuscripts is not complete, especially for the inland. It is felt that all shore features of importance to the mariner have been adequately covered and noted.

Submitted by,

R. W. meia

R.W. Mercer ENS, NOAA

Approved by,

M.H. Fleming CDR, NOAA

Commanding Officer NOAA SHIP DAVIDSON FIELD EDIT REPORT

MAP TP-00733

TACOMA, WASHINGTON

MARCH-APRIL, 1974

Field edit of map TP-00733 was done by Ens. Roger W. Mercer, Ens. James D. Sarb, and Ens. John Oswald during the months of March and April, 1974. Inspection was done from a launch and skiff with shore inspection on foot where required.

#### METHOD

A copy of the Field Edit Ozalid was examined in the field and compared with shore features. Mean High Water Line verification was done by visual comparison with the manuscript.

The discrepancy Ozalid was taken into the field for rough notes by mistake; another Ozalid was used for application of smoothed notes in violet ink. Sextant fixes were taken on many dolphins which were plotted at that time; and, consequently, no records were kept of sextant fixes. Blue prints for the pier extension on Sitcum Waterway are attached to the smooth Ozalid. Geodetic positions of red-lined items on the Field Edit Ozalid are appended to this report along with fix data for two dolphins. All times are based on the 105° W meridian (Zone +7).

# ADEQUACY OF COMPILATION

Compilation of this map seems good. Photogrammetric locations of features agree well with hydrographic locations.

#### RECOMMENDATIONS

It is recommended that this manuscript be revised as per field edit notes on the smooth Ozalid and then be accepted as an advanced manuscript.

Submitted by,

Roger W Mercer ENS, NOAA

Roger W. Mercer

TP-00733

#### DESCRIPTION -

Second dolphin shoreward from SW corner of log boom

Left - Tacoma Red Stack, 1933 L A 29° 57.4' Center - West Corner of Pier 25 Right - Hylebos Light R A 35° 34.5'

Shoremost dolphin of SE Boom face

Left - Tacoma Chemical Plant, Gold Dome L A 33° 18.0' Center - W. Corner of Pier 25 Right - Hylebos Light R A 30° 55.0'

Geodetic Positions by PMC Field Party

Port Industrial Waterway Light N 47° 16' 42.17", 122° 24' 52.953" W

Hylebos Waterway Light N 47° 17' 14.5222", 122° 24' 41.679" W

#### ADDENDA FIELD EDIT REPORT

Commencement Bay, Washington Dec 1974 - Jan 1975 OPR-412 Project CM-7311

This report is a follow-up and completion of the original field edit accomplished in this area in March and April of 1974. Certain deficiencies were noted in the original field edit; and this report is being submitted to correct, clarify, or alleviate any errors or misconceptions that may have been conveyed in the original report.

Although this report was not intended to be a complete re-field edit of the area, certain items from the previous report were checked to verify positions and resolve suspect features. It is suspected the original field editors did not use the photographs to their full advantage as the majority of items in question could be located by photogrammetric methods.

The majority of the landmarks were verified by computing the inverse for intersection stations and occupying marked triangulation stations and observing theodolite cuts.

The field edit copies of the manuscripts were used for the field corrections (in blue and dated) and the photographs were cross-referenced to the field edit copies.

Adequacy: The extent and accuracy of this field edit with amended items of the original field edit and completed forms 76-40 now appears complete.

Pertinent information for each individual discrepancy sheet is listed under that specific sheet.

#### TP-00728

Re-field edited 12/11/74. Agreed with the original field edit except the bluff in question is considered of landmark value. It is of significant height, and distinct boundaries are clear as plotted.

For verification of Pt. Defiance Light see attached NOAA Form 76-40.

#### TP-00729

Re-field edited 12/11/74. Original field edit complete. Brown Point Lighthouse recovered. See attached form 76-40.

#### TP-00730

Re-field edited on 12/12/74, 12/13/74, and 1/10/75. All landmarks were recovered. Lighted aids to navigation were located by photogrammetric methods on photograph 73E9100. The triangulation station TARGET, 1952, in question was reported destroyed in 1965 by H.J.S. (page 41 of book 392) and no attempt was made to recover it.

The position of the Commencement Bay Measured Nautical Mile northwest range front marker was determined by an angle distance from reference mark of the triangulation station TARGET. The position of the northwest range rear marker was determined by an angle and distance from the reference mark of triangulation station BLUFF, 1935. Both positions are less than third order. See the enclosed computations and form 76-40.

#### TP-00731

Re-field edited on 12/12/74. The positions of the Commencement Bay Measured Nautical Mile southeast markers, both front and rear, were determined by an angle and distance from RUSTON, RM NO2. Both positions are less than third order. See the enclosed computations and form 76-40.

#### TP-00732

Re-field edited on 12/10/74. Nonfloating aids to navigation were triangulation stations that were recovered. The new stack considered of landmark value was located photogrammetrically.

The Grain Export Facility under construction in April, 1974, is nearing completion. The pier faces are complete with work on the tower continuing. Port authorities expect to have the facility in operation in June, 1975. The plans for this facility were obtained and are enclosed.

#### TP-00733

This sheet was re-field edited on 12/10/74, 1/6/75, and 1/10/75. Two charted tanks are gone and should be deleted from the charts. See enclosed form 76-40.

Three landmarks (triangulation stations) were recovered and recovery notes submitted. The twin chimneys were located photogrammetrically on photograph 73E9091. The charted stack mentioned in the April, 1974, field edit as being of no landmark value is considered of landmark value in this report. Although poorly visible from Commencement Bay, it is quite distinguishable in the Hylebos Waterway. See photograph 73E9091.

Two large dome-shaped storage elevators depicted on the charts, but not compiled on the ozalid, should be left on the charts, as they are salient features and visible from offshore in Commencement Bay. See photograph

73E9113. Two navigation lights were recovered, and the fog signals were located photogrammetrically on photograph 73E9114.

#### TP-00734

The three items not previously investigated were field edited 12/12/74 and noted on the ozalid. One nonfloating aid to navigation was recovered. One tank, as noted on form 76-40, should be deleted from the chart, as it no longer exists.

Fourteen landmarks were located. Twelve were triangulation and were recovered. Two were located photogrammetrically on photograph 73E9104.

TP-00736

Re-field edited 12/12/74. The new boat was located on photograph 73E9090 by planetable methods. It is a private boat ramp and not maintained by the port authorities. The two stacks considered of landmark value by this field edit were located photogrammetrically on photograph 73E9089 and 73E9088.

There is new construction of a barge-loading facility in the Blair Water-way turning basin. The plans for this facility were obtained from the Port authorities and are enclosed.

Respectfully submitted,

D.S. Eilers LTJG, NOAA Approved by,

Michael H. Fleming

CDR, NOAA

Commanding Officer

NOAA FORM 76-40		NATIONAL OCEANIC	NA CANADA	U.S. LTIONAL OCEANIC AND A	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY N HYDROGRAPHIC PARTY CEODETIC PARTY	CTIVITY
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NOAA FORM 76-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.



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CHIMNEY	WEST CHIMNEY (of TWIN CHIMNEYS)	47 16		23	73E(C)9091 6/22/73	P-5-V 12/10/74 73E9091	6460 6401,6407 185-SC
CHIMNEY	EAST CHIMNEY (of TWIN CHIMNEYS)	47 16		23 3	73E(C)9091 6/22/73		6460 6401, 64 <i>07</i> 185~SC
TANK	(PORT DOCKS, BLACK TANK, 1927)	74 16	32,660 <sub>122</sub> 1008,6	24 40.386	73E(C)9114 6/22/73		6460 6401, 6407 185-SC
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A. Field positions* require entry of method location and date of field work.  EXAMPLE: F-2-6-L  8-12-75  *FIELD POSITIONS are determined by field observations based entirely upon ground survey methors.	I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as F - Field P - Photogrammetric L - Located Vis - Visually V - Verified 1 - Triangulation 5 - Field identified 2 - Traverse 6 - Theodolite 3 - Intersection 7 - Planetable 4 - Resection 8 - Sextant	OFFICE 1. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.  EXAMPLE: 75E(C)6042 8-12-75	INSTRUCTION	FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	POSITIONS DETERMINED AND/OR VERIFIED L. L. Rig	OBJECTS INSPECTED FROM SEAWARD	TYPE OF ACTION	
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NOAA FORM 78-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

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HYDROGRAPHIC PARTY

GEODETIC PARTY

PHOTO FIELD PARTY

COMPILATION ACTIVITY

FINAL REVIEWER

QUALITY CONTROL & REVIEW GRP.

COAST PILOT BRANCH

(See reverse for responsible personne!) 6401, 6407 185-SC 6460 6401, 6407 185-SC 15 AFFECTED CHARTS 0979 ORIGINATING ACTIVIT F-V-Vis 12/10/74 F-V-Vis 12/10/74 METHOD AND DATE OF LOCATION (See instructions on reverse side) FIELD U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION 4/24/75 DATE OFFICE been inspected from seaward to determine their value as landmarks.

SURVEY NUMBER DATUM D.P. Meters Tacoma Harbor LONGITUDE 243 777 NEWHELEGGESTHEWARDSWOR LANDMARKS FOR CHARTS 122 22 ٥ 1927 POSITION D.M. Meters LOCALITY NA LATITUDE 16.8 16.6 Washington 0 7.7 7.7 .. DESCRIPTION (Record resson for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses) TP-00733 REPORTING UNIT (Field Party, Ship or Office)
Coastal Mapping Div. Tank has been dismantled The following objects HAVE X HAVE NOT OPE PROJECT NO. CM-7311 Tank removed Replaces C&GS Form 567. TO BE CHARTED X TO BE DELETED NOAA FORM 76-40 412 CHARTING NAME TANK TANK



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NOAA FORM 75-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

. S REVIEW REPORT

TP-00733

SHORELINE

January 26, 1978

#### 61. GENERAL STATEMENT:

Many water features not visible on the photographs were spotted on a paper ozalid, labeled "Smooth Ozalid", by the field editor. This method of location is not considered to meet accuracy standards. All such features are labeled "(PA)" for position approximate on the map.

A landmark grain elevator shown on Chart 185-SC at lat. 47° 16.5', long. 122° 24.9' is visible on the photographs however, it was not shown on the Class III Map. This apparent oversight was discovered during the application of field edit. This landmark was added to the Class I Map and included on the 76-40 form at that time. The object was not verified by the field editor. By photogrammetric comparison the elevator is significantly higher than the landmark tank located northeast of it.

See Summary, page 6 of this descriptive report.

#### 62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

#### 63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Not applicable.

#### 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

The map was compared with a copy of Final Verified Smooth-sheets H-9411 (DA-5-2-74) and H-9412 (DA-5-3-74). There are no significant differences.

# 65. COMPARISON WITH NAUTICAL CHARTS:

Comparison was made with Chart 18453, 1:15,000 scale, 14th edition dated May 29, 1976.

A small building shown on the chart projecting out over the water at lat. 45° 16.3°, long. 122° 24.5° does not appear on the photographs. The pier shown in that position on the map however, is plainly visible.

The north shore of Commencement Bay plots inshore of its charted position by a significant amount. Consequently, buildings charted onshore are shown on the map projecting out beyond the mean high water line.

# 66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the project instructions and meets the requirements for Bureau Standards and the National Standards of Map Accuracy.

Submitted by:

Q.L. Schands

A. L. Shands Final Reviewer

Approved for forwarding:

allate Ranchy. ron.

Jeffrey G. Carlen, CDR

Chief, Coastal Mapping Division, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division

#### NAUTICAL CHART DIVISION

#### **RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00733

#### INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

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